



UNIVERSAL TESTING MACHINE

Made In Thailand

BRAVO
By Tech Quality Co., Ltd.

The Stealth MF Pro Series Floor Models Universal Testing Machine are designed to test a wide spectrum of materials including metal wire & foil, plastics, rubber, textiles, paper, yarn, adhesives, ceramics, timber, foods, composites & finished components in tension, compression, flexural or shear . Maximum frame capacities are from 20N to 300KN In compliance with various international standards, such as ASTM, BS EN, JIS, ISO, IEC, TISI

Made In Thailand

Features

1. Panasonic servo motor drive set
2. UK or JAPAN Brand Load cell grade 0.05%
3. 10 Point calibration adjustment
4. High Accuracy Ball Screw
5. Load Resolution 1/10⁹
6. Force measurement range 0.1% to 100%FS
7. Data Transfer Rate to PC 1 kHz..
8. Automatically sample Height measurement
9. Modern extruded profile High-quality load-frame design
10. Load Measuring System EN ISO 7500:2015 Class 0.5
11. USB or Wireless Communication or Ethernet
12. Smart Control Box & HAND-HELD Remote control
13. 32-bit A/D converter/ EEPROM Plug

BRAVO

By **Tech Quality Co.,Ltd.**



Simple to use Test Setup

Limit Testing Break Testing Loop Testing Preload Setup Elongation Auto Return, Over Load Protection

Multi-control mode

- Position Control
- Strain Control
- Force Control
- Stress Control
- Multi-step control

Applications

Metal, Plastic, Rubber, Textile, Synthetic, Wire, Cable, Food, Packaging, Autopart, AeroSpace, Woods, Composit, Cement Mortars etc.

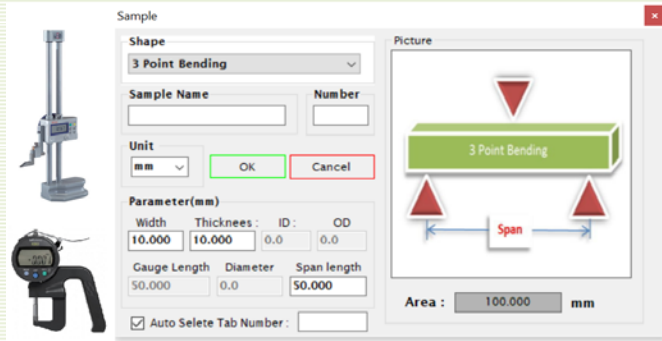
Test Types

Tensile Testing • Compression Testing • Flexural Testing • Friction • Insertion/Extraction • Peeling • Tearing • Creep/Relaxation

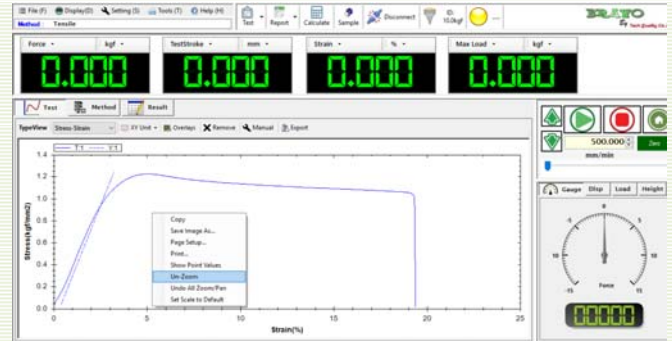
Specifications : Bench-top frame to apply loads - from 100 KN to 300 KN capacity

Model : Stealth	MF100 Pro	MF150 Pro	MF300 Pro
Capacity (KN)	100	150	300
Load Accuracy (%) FS	0.5	0.5	0.5
Crosshead Speed (mm/min)	0.0005 – 500	0.0005 - 300	0.0005 - 300
Speed Accuracy (%) FS	0.2	0.2	0.2
Extension Resolution (μm per encoder count)	0.0004	0.0004	0.0004
Crosshead Travel (mm)	1,400	1,400	1,400
Width Between Columns (mm) can be offered upon request	400, 500 or 650	400, 500 or 650	400, 500 or 650
Load Measuring System : EN ISO 7500-1:2015, Class 0.5 ASTM E4			
Plug 'n' Play, automatic identification of BRAVO series load cells			
The Windows® 10 (64 Bit) compatible Black Hole Software			
Power 220Vac/ 50Hz			
Operating Temperature 5° to 35°C (41° to 95°F)			
Warranty 1 Year			

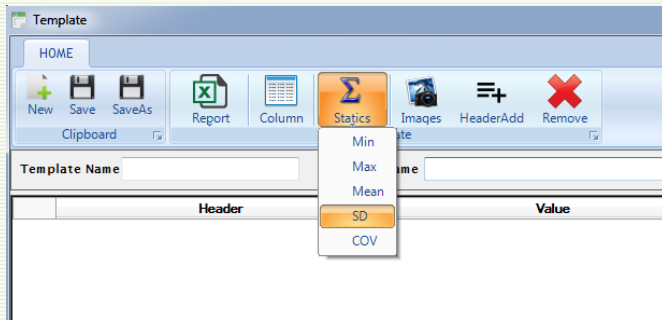
Sample Information & Connect to Mitutoyo Gauge



Software & Report, Offset & Zoom Graphics



Statistic Reports



Excel csv ,Excel , PDF User design Reports

Tech Quality Co.,Ltd.

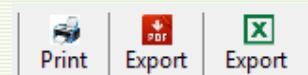
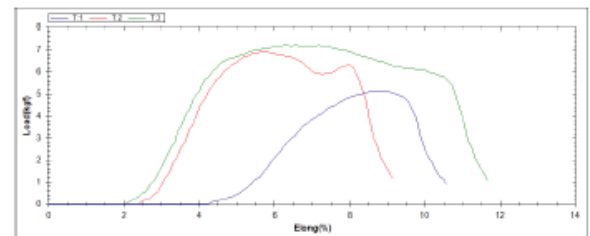
Test By: Mr. Nukool Boonklam

Test Standard: ASTM D882 Thin Plastic Sheet

Temperature: 25C

Humidity: 55%

No	Date	Gauge Length (mm)	Thickness (mm)	Width (mm)	Max Load (kgf)	Strength (MPa)	Elong @ Break (%)
T1	28/5/2018	50.0000	10.0000	10.0000	5.1971	0.5258	82.2000
T2	28/5/2018	50.0000	10.0000	10.0000	6.1980	0.6078	13.5802
T3	28/5/2018	50.0000	10.0000	10.0000	5.0235	0.4828	100.5591
T4	28/5/2018	50.0000	10.0000	10.0000	5.0285	0.4831	101.2236
T5	28/5/2018	50.0000	10.0000	10.0000	6.0144	0.5888	118.5042
T6	28/5/2018	50.0000	10.0000	10.0000	6.0216	0.5925	93.0473
T7	28/5/2018	50.0000	10.0000	10.0000	5.0220	0.4825	82.2000
T8	28/5/2018	50.0000	10.0000	10.0000	4.0101	0.3933	85.4156
T9	28/5/2018	50.0000	10.0000	10.0000	6.0208	0.5920	98.4304
T10	28/5/2018	50.0000	10.0000	10.0000	5.1285	0.5030	10.5700
T11	28/5/2018	50.0000	10.0000	10.0000	6.8259	0.6782	9.1414
T12	28/5/2018	50.0000	10.0000	10.0000	7.2116	0.7072	11.6477
Min		50	10	10	4.0101	0.3933	9.1414
Max		50	10	10	7.2116	0.7072	116.5042
Mean		50	10	10	5.9439	0.5525	64.9891
SD		0	0	0	0.9162	0.0887	41.8827
COV		0	0	0	18.2148	16.2145	64.182

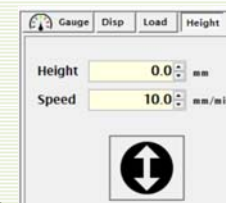


Auto test setup & load protect & return speed

Auto Zero before Test Return Speed: 100.0 mm/min

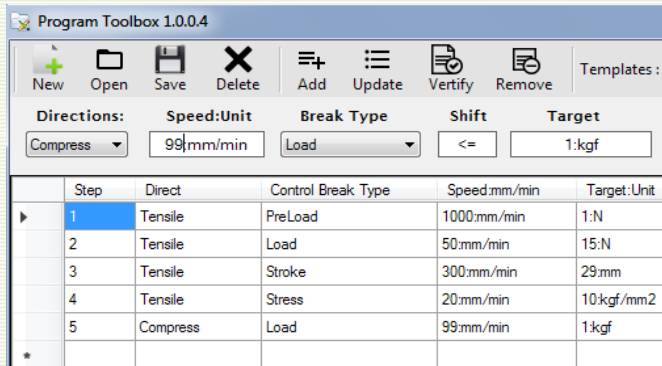
Auto Save after Test Complete Load Protect: 90 %

Auto Return to home after Test 18.00 kgf

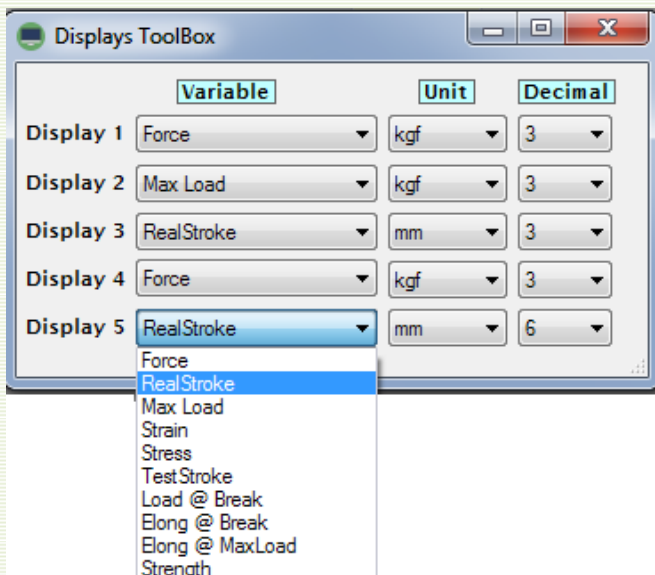


Grip to Grip Separation

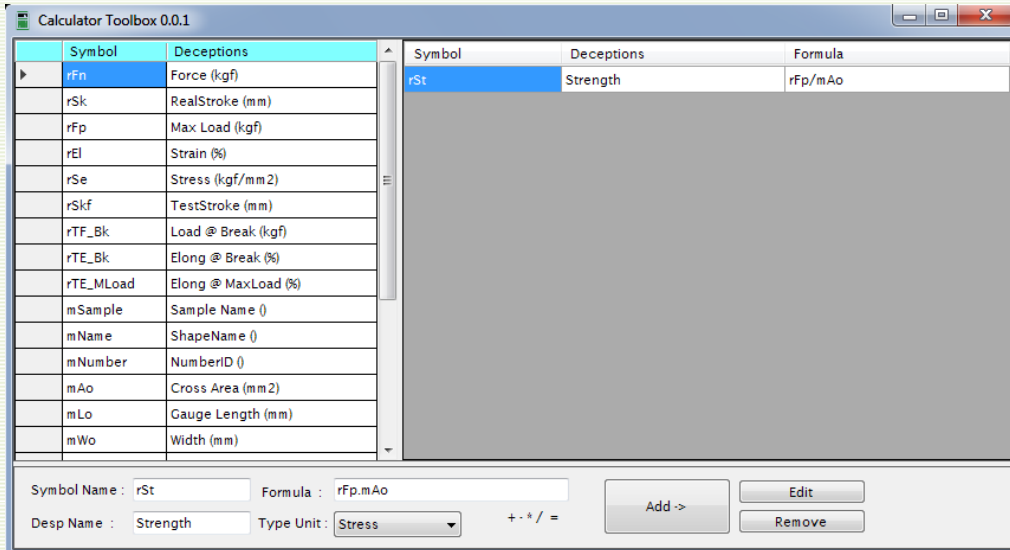
Multi-stage testing with Black Hole software



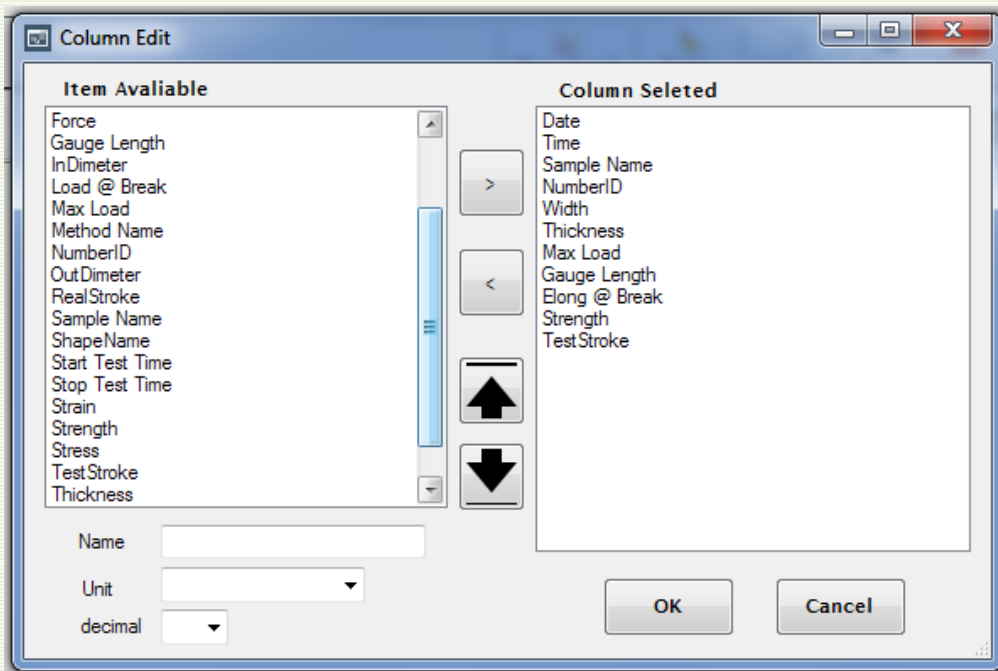
Multi Display & Decimal Point



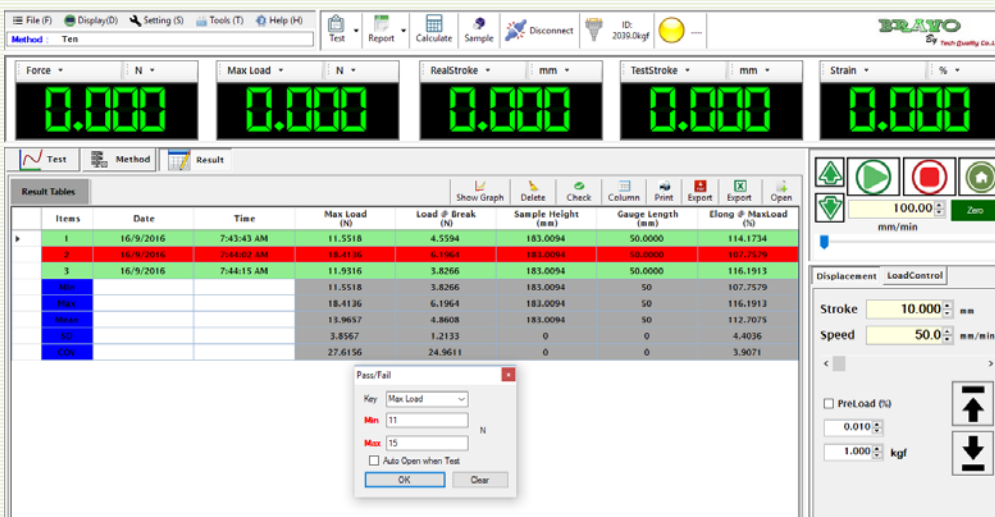
Formula Design by user



Selectable Result

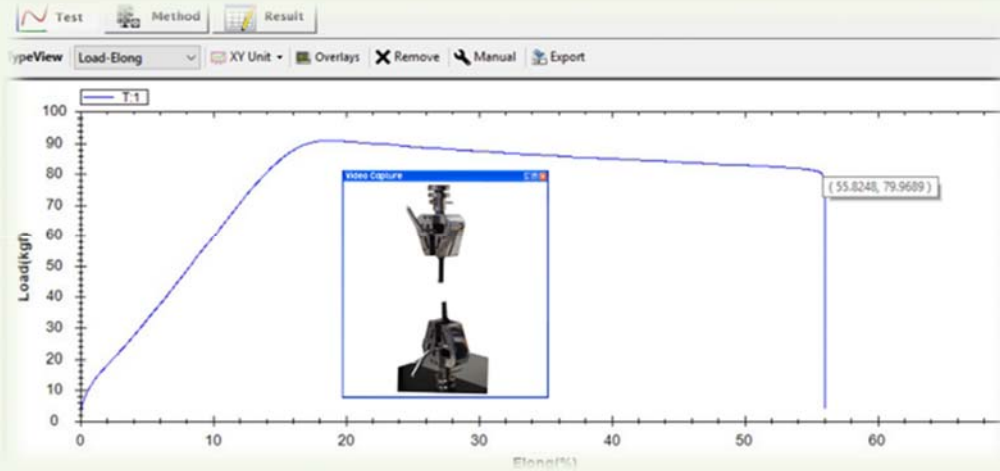


Results can be color coded for immediate pass/fail recognition.

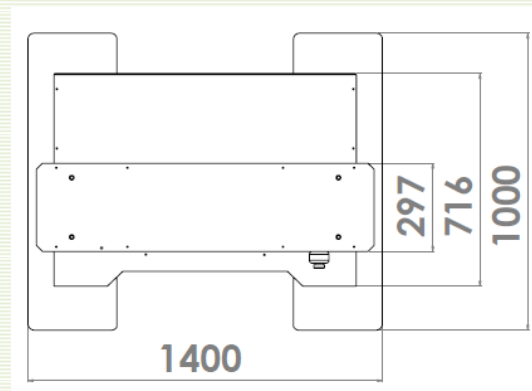
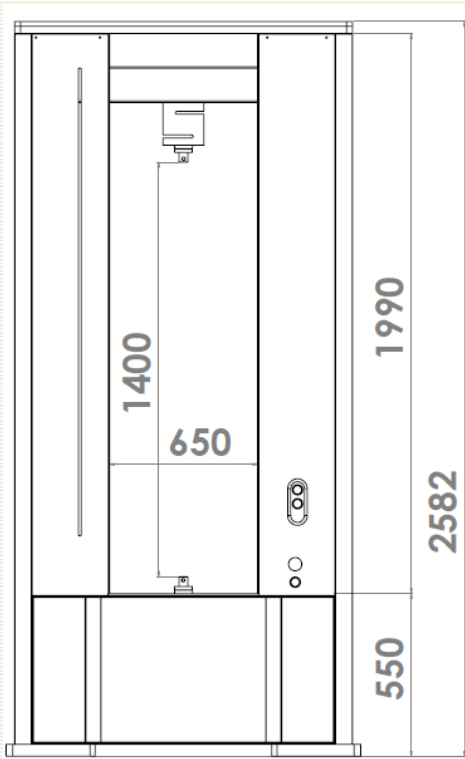


Video and still capture

Video Capture and Synchronisation System enables UTM users to view 20fps video recordings frame by frame. it's a fantastic tool for teaching physical material test for those new to the field, or to help you gain a frame-by-frame understanding of your product strength.



Dimension



Ordering Information

Tech Quality Co.,Ltd.
2/13 Sukapiban 2 Rd., Pravet , Pravet,
Bangkok 10250 Thailand
Tel : +662 328 6878 (Auto)
Fax : +662 328 6818
www.tech-quality.com
email: info@tech-quality.com